


1911.

THE TWENTY-SEVENTH
ANNUAL REPORT
OF THE
MEDICAL OFFICER OF HEALTH
FOR THE
URBAN DISTRICT OF CROMER,
TOGETHER WITH
THE REPORTS
OF THE
SANITARY INSPECTOR AND SURVEYOR,
THE FIRE BRIGADE,
AND
THE WATERWORKS DEPARTMENT.

ROUNCE & WORTLEY, "CROMER, 1912.



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REPORT

OF THE

Medical Officer of Health

For the Year ending 31st December, 1911.

CROMER,

GENTLEMEN, 16TH JANUARY, 1912.

The past year has been an exceptional one in many ways, a mild winter followed by a summer which was remarkably dry and with great heat at times, especially in the months of July, August, and September, followed by the very wet and mild months of October, November, and December.

The rainfall for the whole year was 19.29 inches, compared with 25.51 inches in 1910.

During August and September, the increase of visitors was greater than in previous years.

The occupations, which concern the majority of the inhabitants, in providing for this great influx during these two months, were certainly taxed to the fullest extent, especially during the time of the Railway Strike in the busiest week of the Season.

All these factors have contributed to the increase of the Death Rate and the increase of cases of Typhoid, which have occurred here and in the neighbourhood.

Under the Housing (Inspection of District) Regulations, 1910, I have visited with the Sanitary Inspector the following :—

			(No. last year 45).
No. of Houses Inspected	...	208	
No. brought forward from last year		25	
			233
No. found satisfactory	... ..	127	
No. where required work is done		25	
No. to stand over for further report		27	
			179
No. carried forward to next year	...		54

Defects found in 208 houses—

Overcrowding	...	...	...	...	7
Flushing apparatus to W.Cs. defective	...				4
Sink waste defective	...	...	...	...	13
Sanitary conveniences in bad condition	...				1
Rain water guttering, &c., defective	...				15
Habitable room with insufficient window	...				3
Habitable room with insufficient ventilation					1
No air inlet to drains	...	...	...	...	14
Defective air inlet to drains	...	...	...	...	2
Defective ventilation shaft to drains	...				1
W.C. no proper ventilation	...	...	...	...	8
W.C. defective pan	...	...	...	...	1
Yard requires paving	...	...	...	...	18
Rain water tank defective	...	...	...	...	1
Staircase defective	...	...	...	...	1
Floors defective	...	...	...	...	4
Window not opening	...	...	...	...	3
Defective yard gulley	...	...	...	...	7
Roof defective	...	...	...	...	10
Houses damp	...	...	...	...	17
					<hr/>
					131
					<hr/>

On the 1st October there was 988 houses inhabited, as compared with 969 in 1910.

The water supply was sustained during a period of great drought without any failure, and the measures that have been taken by you to wash out the mains have in my opinion been very successful in preventing the frequent causes of complaint in former years of the presence of Oxide of Iron, though after consideration of the great expense involved, you decided not to proceed with the question of filtration at present.

The water has been maintained in its usual state of great purity.

Under the Dairies, Cowsheds, and Milk Shops Order, I have inspected the Dairies and found them satisfactory.

In accordance with the new regulations the Sanitary Inspector has been instructed to take samples of milk supplied to the town and the analyses have been made by the County Council, who have arranged to undertake any prosecutions necessary, but none have been required.

I have paid frequent visits to a Fish Shop, on complaints of an offensive smell, and gave instructions that the storage of fish in the passage leading to the street should cease. This has been done, and I trust no further complaint will arise.

There are no slaughter-houses in the town.

Under the Sale of Food and Drugs Act no action has been necessary.

The drainage and sewerage of the town has been satisfactory.

The closet accommodation has had my attention with the Sanitary Inspector in our visits to the houses in the town, and in my opinion is remarkably good.

The question of the scavenging of house and trade refuse has occupied your attention, and I am pleased to report that you have decided, with the sanction of the Local Government Board, to erect a Destructor on a very suitable site not too far away from the town and yet one that is free from objection. I trust it will be in working order before the next season, and that it will prove both efficient and more economical than your former method of carting the refuse to tips in the neighbourhood.

The County Council Schools have been inspected by myself and the Sanitary Inspector, but, with the exception of the condition of the W.Cs., which have not always been as cleanly as we could have desired, I have not had occasion to complain of any other defect.

In March there was an outbreak of Whooping Cough, which was not stopped until, in conjunction with the School Medical Officer, I excluded children from infected houses.

The supervision of the County Medical Officer, who is the School Medical Officer, has been recognised by me, and I have endeavoured to carry out his wishes as far as it is possible.

There have been medical inspections of the children in the school by the County Authority.

The Hospital accommodation in the district consists of the Cromer Cottage Hospital, supported by voluntary contributions, where, by the last Annual Report, 61 of the 161 patients treated were admitted from this District.

The Fletcher Convalescent Home is in connection with the Norfolk and Norwich Hospital.

The Isolation Hospital at Roughton, $3\frac{1}{2}$ miles away, has been ready at all times to receive cases of infectious disease. During September I accompanied the County Medical Officer to see it when he was reporting on the Hospital accommodation available for infectious diseases occurring in the County.

INFECTIOUS DISEASES.

During the year six cases of Enteric Fever occurred at intervals. The 1st, in a child age 4, who was living in a house where the inside soil pipe had been defectively mended and which allowed sewer gas to escape into the house; 2nd, a man who had been working outside Cromer, and probably contracted the disease in his work; 3rd, a servant who had recently come from the country, and was treated and notified after admission in the Cromer Cottage Hospital; 4th, another servant also notified after admission into the Cottage Hospital, had been eating watercress a fortnight before; 5th, a man who had been eating raw mussels, isolated at home; 6th, a boy with only a history of having eaten chestnuts he had picked up, and was by special leave admitted into the Isolation Hospital, there being no possibility of efficient isolation at home.

There were five cases of Scarlet Fever, the first in a woman who had been visiting Norwich was admitted in April to the Isolation Hospital. Two children at the end of May became infected by a child visitor from Norwich and were isolated in their own home. The other two occurred without any definite history of infection and were treated at the Isolation Hospital.

Four cases of Diphtheria occurred, the first two in children below school age where no history of infection could be obtained. The third was the Matron of a G.F.S. Home of Rest, where previously a girl had been admitted after suffering from a sore throat; and the fourth, in a boy who was brought home ill, the diagnosis not having been made before leaving Birmingham.

In all cases of Diphtheria, swabs for diagnosis and on convalescence have been provided and full advantage taken of bacteriological methods for the control of these diseases, the Widal Test being used in cases of Enteric Fever.

ISOLATION HOSPITAL.—This year four cases have been admitted, three Scarlet Fever and one Enteric, the average stay

being 34 days. One case of Scarlet Fever admitted just before Christmas remains in Hospital. There have been no complaints, and the efficiency and economy has been well maintained by the Matron (Miss Lapham) and Staff.

On my advice you have applied the Notification of Infectious Diseases Act to the diseases known by the names of Acute Poliomyelitis and Cerebro-Spinal Fever, and have taken the necessary steps to carry out the compulsory notification of Pulmonary Tuberculosis under the Public Health (Tuberculosis) Regulations, 1911, but at present no provision is made in this district for the treatment of early, intermediate and advanced cases of Tuberculosis by means of Sanatorium and Hospital accommodation.

No notification has been sent me under the Public Health (Tuberculosis) Regulations, 1908.

Under the Factory and Workshops Act, 1901, with the Sanitary Inspector I have paid 30 visits. Defects found—Accumulation of refuse, 1; bad condition of sanitary conveniences, 4.

VITAL STATISTICS.

The Population estimated in the usual way for the middle of the year shows an increase of 84, being 4347, as compared with 4263 in 1910.

The population taken by the Census on April 1st was 4073, as compared with 3781 at Census of 1901, an increase of only 292.

The Birth Rate is 15.7 per 1000 population, as compared with 19.0 per 1000 for 1910.

The Nett Death Rate is 9.6 per 1000 population, as compared with 6.1 per 1000 in 1910.

The Infant Mortality is 109.3 per 1000 births registered, as compared with 12.3 in 1910.

Area, 1007 acres; population, 4347 (Census 1911, 4073); inhabited houses, 988; rateable value, £37,041 os. od.

Births—Males, 32; females, 32; total, 64 (2 male and 3 females illegitimate). Birth rate 15.7 per 1000 population.

Deaths registered, 43; nett 42; males, 24; females, 19; total, 43; nett death rate, 9.6 per 1000 population.

DEATHS AT DIFFERENT AGES.

Under 1 year	...	...	...	7
Over 1 and under 2	...	...	...	1
„ 5 „ „ 15	...	...	...	2
„ 25 „ „ 45	...	...	...	3
„ 45 „ „ 65	...	...	...	11
„ 65 and upwards	...	...	...	18
				<hr/> 42

Infant Mortality—7 deaths under one year, 109.3 per 1000 births registered, 1.61 per 1000 population.

Pulmonary Tuberculosis—There were 2 deaths from this ; 0.4 per 1000 population, 47.6 per 1000 deaths.

Cancer—There were 4 deaths ; 0.9 per 1000 population, 95.2 per 1000 deaths.

Zymotic Disease—There were 2 deaths from Whooping Cough in infants of under 2 years ; 0.4 per 1000 population, 47.6 per 1000 deaths.

CAUSES OF DEATH.

Whooping Cough	...	...	...	2
Phthisis (Pulmonary Tuberculosis)	...	...	...	2
Cancer	...	...	...	4
Bronchitis	...	...	...	2
Nephritis	...	...	...	4
Premature Birth, &c.	...	...	...	6
Suicides	...	...	...	2
Senility	...	...	...	4
Cerebral Hæmorrhage	...	...	...	3
Heart Disease	...	...	...	8
Other Defined Diseases	...	...	...	5
				<hr/> 42

In conclusion, I must again express my thanks to Mr. Croome for his kind assistance on the occasions I have required it.

I am, Gentlemen,

Yours obediently,

R. C. M. COLVIN-SMITH, M.B., B.C., B.A.,
M.R.C.S., L.R.C.P.

*Fellow of Society of Medical Officers of Health,
Medical Officer of Health.*

Vital Statistics for whole District during 1911, and previous years.

Year.	Population esti- mated to middle of each year.	Births.			Total Deaths Registered in the District.		Transferable Deaths.		Nett Deaths belonging to the District.			
		Uncorrected Number.	Nett.				Of Non-Resi- dents Registered in the District.	Of Residents not Registered in the District.	Under 1 year of age.		At all Ages.	
			Number.	Rate.	Number.	Rate.			Number.	Rate per 1000 Nett Births.	Number.	Rate.
1	2	3	4	5	6	7	8	9	10	11	12	13
1906	3973	96		24.1	39	9.2	2		9	93.7	37	9.2
1907	4140	77		18.5	52	12.5	8		8	103.8	44	10.6
1908	4105	64		15.5	41	9.9	6		14	218.7	35	8.5
1909	4175	91		21.7	35	8.3	2		4	43.7	33	7.9
1910	4263	81		19.0	28	6.6	2		1	12.3	26	6.1
1911	4347	63	64	15.7	43	9.8	3	2	7	109.3	42	9.6

Rates in Columns 5, 7, and 13, calculated per 1,000 of estimated population.

Total Population at all ages, 4,073

Number of Inhabited Houses, 934.

Average Number of Persons per House, 4.36.

Area of District in Acres (exclusive of area covered by water), 1,007.

} At Census of 1911.

Cases of Infectious Disease notified.

Notifiable Disease.	At all Ages.	Age under 1.	Age 1 to 5.	Age 5 to 15.	Age 15 to 25.	Age 25 to 45.	Age 45 to 65.	65 and upwards.	Total removed to Hospital.
Diphtheria (including Membranous Croup)	4	...	2	1	...	...	1	...	...
Scarlet Fever ...	5	...	...	2	2	1	...	...	3
Enteric Fever...	6	...	1	1	2	2	...	...	1
	15	...	3	4	4	3	1	...	4

Causes of, and Ages at, Death.

Causes of Death.	All Ages.	Under 1 year.	1 and under 2.	2 and under 5.	5 and under 15.	15 and under 25	25 and under 45	45 and under 65	65 and upwards	Total deaths whether of residents or non-residents in Institutions in the District.
All causes certified	42	7	1	...	2	...	3	11	18	4
Whooping Cough	2	1	1	...	...	...	...	...	...	...
Phthisis (Pulmonary Tuberculosis)	2	...	...	...	...	...	2	...	...	...
Cancer, malignant disease	4	...	...	...	...	...	...	2	2	...
Bronchitis	2	...	...	...	...	...	...	...	2	...
Appendicitis and Typhlitis	...	...	...	...	...	...	...	...	...	1
Nephritis	4	...	...	...	...	...	1	1	2	1
Congenital Debility and Malformation, including Premature Birth	6	6	...	...	...	...	...	...	...	...
Suicides	2	...	...	...	...	...	...	2	...	...
Senility	4	...	...	...	...	...	...	...	4	...
Cerebral Hæmorrhage ...	3	...	...	...	...	...	...	2	1	...
Heart disease	8	...	...	...	1	...	...	3	4	2
Other defined diseases ...	5	...	...	...	1	...	...	1	3	...

Cromer Weather Report.

NINTH ANNUAL REPORT.

Mean temperature again shows an increase of about $1\frac{3}{4}$ degrees, rainfall was about $6\frac{1}{4}$ inches less, and sunshine about 331 hours more. The improvement was mainly due to July, which gave about $3\frac{1}{2}$ inches less rain and 220 hours more sunshine.

ATMOSPHERIC PRESSURE.

Mean pressure showed a slight increase at 29.963 inches. Monthly extremes were 30.274 in January and 29.681 in November, but the daily extremes show a range of over two inches between 30.782 of February 1st and 28.616 of November 18th.

SHADE TEMPERATURE.

The highest monthly maximum was 74.3 degrees in August, which gave the high monthly mean of 65.9. The extreme reading of 92.3 degrees on August 9th was 14.8 degrees higher than June of last year. August retained its position as the warmest month at 65.9 degrees.

SUNSHINE.

July displaced May of 1910 for highest monthly record with nearly 300 hours against 219. April was slightly deficient, but the next six months—May to October—gave the substantial increase of 436 hours.

RAINFALL.

The total shows the large decrease of about $6\frac{1}{4}$ inches. The heaviest fall was 2.44 inches in June and the least was 0.50 inch in July. The extreme was 0.71 inch on November 18th.

W. H. ARCHER.

February 6th, 1912.

1911.		Baro- meter. Mean.	Dry Bulb. Mean.	Wet Bulb. Mean.	RAINFALL.				SHADE TEMPERATURE.			Sun- shine. Hours.
					Maximum Day's Rain.	Date of Maximum	Total Fall.	Rainy Days.	Maxi- mum.	Mini- mum.	Mean.	
January	Deg. 37.5	Deg. 36.7	Inches. 0.42	1	Inches. 1.58	No. 21	Deg. 43.3	Deg. 33.4	Deg. 38.4	70.1
February	39.5	38.6	0.30	21	1.22	22	45.4	34.7	40.1	66.2
March	39.5	38.9	0.39	12	1.49	25	45.4	35.3	40.4	91.8
April	45.0	42.9	0.23	28	0.86	13	53.5	38.7	46.1	139.4
May	52.9	50.8	0.36	14	0.97	10	60.8	45.9	53.4	230.1
June	56.4	53.5	0.59	23	2.44	18	64.6	50.2	57.4	236.7
July	63.3	59.1	0.28	26	0.50	14	72.4	56.0	64.2	299.6
August	65.1	61.1	0.60	19	1.18	17	74.3	57.4	65.9	206.1
September	59.2	55.2	0.31	27	1.47	13	69.7	51.6	60.7	207.0
October	50.3	49.0	0.30	29	2.08	24	56.1	46.0	51.1	105.3
November	42.4	41.4	0.71	18	2.39	26	49.0	37.9	43.5	59.5
December	42.1	41.6	0.46	10	3.11	30	46.7	36.8	41.8	43.7
Totals	19.29	233	...	...	...	1755.5
Means	49.4	47.4	...	...	1.61	19	56.8	43.7	50.3	...
Year 1910...Totals	25.51	255	...	...	...	1424.1
Means	47.9	46.3	...	...	2.12	21	54.1	43.1	48.6	...

W. H. ARCHER, *Observer.*

REPORT
OF THE
Sanitary Inspector

For the Year ending Dec. 31st, 1911.

To the Chairman and Members of the Sanitary Committee.

GENTLEMEN,

The Inspection of the District under the Housing Act, 1909, has been continued, 208 houses having been visited; the defects discovered were in most cases not of a very serious character.

It has not been necessary to serve any statutory notices under the Act, as the Owners have carried out the work without this step being taken.

Of the 54 houses still requiring attention where the work is not in hand, it is waiting until the remainder of the property belonging to the same Owner has been visited.

The Council instructed me to attend a Conference on June 2nd, convened by the Norfolk County Council, at Norwich, with reference to an improved system of taking Milk Samples in the District. After the matter had been brought under your consideration, you agreed to my appointment as an Officer under the County Council for this purpose. Four samples were taken and all were satisfactory.

A special inspection and report has again been made on the Overcrowding in the District, and a satisfactory decrease of cases was shown.

I have made, with the Medical Officer of Health, two general inspections of the Factories and Workshops, and one of the Dairies.

The usual tables of the Sanitary Work done during 1911 are appended.

I have the honour to be, Gentlemen,

Your obedient servant,

ROBERT CROOME.

January 16th, 1912.

STATEMENT A.

Showing the work done by the Sanitary Inspector during the year ending December 31st, 1911 :—

	1911.	1910.
House to house inspections	56	149
Special inspections and investigations of complaints	49	68
Re-inspections, &c., to ascertain progress of sanitary and informal orders ...	261	373
Inspections of nuisances, &c., discovered ...	53	45
Visits in connection with infectious diseases	135	141
Inspections under the Factory and Workshops Acts	30	10
Re-inspections under the Factory and Workshops Acts	14	10
Visits in connection with dairies and cowsheds	14	15
Visits to the Isolation Hospital	1	5
Visits to caravans	0	0
Premises inspected in Sanitary Census ...	2	1
Re-inspections, &c., under orders, &c., due to same	4	0
Premises inspected under Housing Act ...	208	45
Re-inspections, &c. „ „ „ „ ...	223	40
Total	1050	912
	1911.	1910.
Premises disinfected	14	10
Rooms disinfected	17	14
Insanitary houses reported to M.O.H. ...	2	0
Premises to which smoke test was applied	14	3
Committee meetings attended	17	21
Letters (including complaints) received ...	68	95
Letters (including school notices) sent out	73	105
Preliminary notices served	6	6
Legal notices served	5	0
Defects found by house to house inspections	2	20
„ „ Sanitary Census	1	1
„ „ workshop inspections	8	5
Milk samples taken	4	0
Water „ „ „ „ „ „ „ „	1	0
Defects found by other inspections ...	53	40
„ „ „ Housing Act inspections	131	29
Complaints received at Office	†49	*68
*Of these, 20 were found on investigation to be unfounded.		
† „ 18 „ „ „ „ „ „		
Total number of matters dealt with ...	244	163

STATEMENT B.

Giving details of the 244 matters dealt with.

	1911.	1910.
Overcrowding	11	12
Flushing apparatus to W.C.'s defective ...	7	8
Sink and bath wastes defective	15	6
Collection and storage of house refuse ...	16	16
Sanitary conveniences in bad condition ...	17	16
Rain water guttering, &c., defective ...	15	21
Habitable room with insufficient window ...	4	4
" " " " ventilation	4	4
Removal of swill	1	6
Removal of manure, &c.	10	10
Drains choked	6	5
Drains defective	9	9
Street gullies	1	0
Defective air inlet to drains	4	0
,, ventilation shafts to drains ...	3	2
No sanitary conveniences	1	0
Fowls	2	0
Pig keeping	2	0
Fish	3	1
Insanitary premises	0	1
Sanitary condition of yards	4	14
No air inlet to drains	15	3
Stables	4	5
Sanitary condition of premises	3	2
Accumulation of refuse	2	0
W.C., no proper ventilation	8	1
Rain water down-pipe untrapped	2	0
Roof defective	10	0
Floor ,,	5	0
Staircase ,,	1	0
Defective yard gulley	7	0
Non-notifiable diseases... ..	2	2
Yard unpaved	18	0
Insanitary sleeping room	0	1
Cowsheds and dairies	0	1
Rain water tank defective	1	0
Sundry complaints investigated	9	14
W.C., defective pan	1	0
Smoke nuisance	1	2
Fish bait	2	6
Dampness of premises... ..	17	0
Insufficient sanitary accommodation ...	1	0
Total	244	163

STATEMENT C.

In connection with the Infectious Diseases Inspection, the following defects were found in the premises referred to in the Certificates :—

Rain water down-pipe untrapped	...	...	...	2
Drain defective	...	...	...	2
Soil pipe defective	...	...	...	1

STATEMENT D.

Showing the work done under the "Sanitary Census" :—

			1911.	1910.
Premises visited	...	...	2	1
Defects discovered	...	...	1	1
Rain water down-pipe untrapped	...	...	1	0

STATEMENT E.

Showing the work under the Dairies, Cowsheds and Milkshops Order, 1885 :—

			1911.	1910.
Dairies on Register	...	...	6	6
Cowsheds on Register	...	...	3	3
Number of inspections and visits	...	...	14	15
Milk samples taken	...	...	4	0

STATEMENT F.

Showing the work under the Factory and Workshops Acts :—

			1911.	1910.
Factories on Register	...	...	9	8
Workshops on Register	...	...	41	43
Workplaces on Register	...	...	1	3
Number of inspections	...	...	30	20
Number of re-inspections	...	...	14	10

DEFECTS DISCOVERED.

Accumulation of refuse	...	...	2
No sanitary conveniences	...	...	1
Bad condition of sanitary convenience	...	...	5
Number of notices served	...	...	4
Number of notices received from H.M. Inspector	...	...	1

In one case no Abstract of the Act was exhibited as required.

STATEMENT G.

Showing the work under the Housing Act, 1909 :—

Number of houses Inspected 1910	...	45
„ „ „ 1911	...	208
		<hr/>
		253
„ „ found satisfactory, 1910	20	
„ „ „ „ 1911	127	
		<hr/>
		147
		<hr/>
		106
„ „ where required work has been completed	... ..	25
		<hr/>
		81
Number of houses to stand over for further report	... ..	27
		<hr/>
Number of houses carried forward to next year	... ..	54
The details of the defects discovered will be found in the Report of the Medical Officer of Health.		
Number of Re-inspections, &c., to ascertain progress of informal notices...	...	223

STATEMENT H.

Number of Notices served, and result of the service of such notices :—

INFORMAL NOTICES	...	...	...	2
Defective drainage	...	...	...	2
Rectified	...	...	...	1
In hand	...	...	...	1
STATUTORY NOTICES	...	...	...	4
Overcrowding	...	...	...	5
Improper keeping of animals	...	...	...	1
Sanitary conveniences in bad order	...	...	...	1
Rectified	...	...	...	4

Report of the Surveyor

For the Year ending December 31st, 1911.

**To the Chairman and Members of the Cromer Urban
District Council.**

GENTLEMEN,

The length and particulars of the Roads within the Urban District are the same as last year, viz., $10\frac{2}{3}$ miles.

The only alteration in the paths is an addition of 77 lineal yards to those tar-paved.

MAIN ROADS.

The widening of Overstrand Road in front of "Old Bracondale" has been completed.

A much needed improvement has been made to the road and path in front of the "Grand Hotel."

A tar-paved channel has been laid to the Holt Road hill on the west side.

A concrete channel has been laid on the south side of Church Street, from Mr. Bower's to "The Ship"; this has remedied the defect of this portion of the street, which was practically without a drainage fall. The street was also made good in tar-topping, which will postpone the necessity of relaying the entire roadway for a year or so.

Norwich Road has been re-metalled in the centre from the Roughton Road to the Farm Buildings.

Leicestershire Granite (Enderby & Stoney Stanton Granite Co.) has been used as in the previous year.

OTHER ROADS.

The following roads have been re-metalled in flints and put into good repair:—Cabbell Road, Cadogan Road, Alfred Road,

Alfred Road Back, Cambridge Street, Cross Street, Upper Bond Street, The Loke, and Vicarage Road Back.

Two temporary paths were made from the Cliffs to the Beach on the east side, and were much used.

A portion of the West Cliff Path has been made good, the Protection Commissioners building the concrete retaining wall, and the Council laying the tar-paved path and the necessary gullies and drainage.

The junction of Mill Road and Overstrand Road has been reformed, an island made, and the position of the Vent Shaft altered.

High Street has been reformed in tarred slag from Jetty Street to Church Street.

The Loke adjoining the Vicarage Grounds has been re-gravelled and tarred.

Garden Street and Hamilton Road Back Passages have been made good in tarred slag.

Mill Lane will in future be known as Mill Road

ROAD IMPROVEMENT ACT, 1909.

No work has been carried out under this Act.

PRIVATE STREET WORKS.

Mill Road and Salisbury Road Back Passage has been made up at a cost of £28 15s. 9d. (estimate £33 5s. od.)

Beach Road from Central Road to Bernard Road having become in a dangerous condition has been repaired at the cost of the frontagers.

Central Road badly needs attention, and this is receiving the consideration of the Committee.

The necessary plans, &c., for making up of St. Margaret's Road under the Private Street Works Act are now being prepared.

The Marrams Path has been re-gravelled and repaired for the Protection Commissioners.

Harbord Road, Overstrand, was tar-painted for, and at the cost of, Lady Battersea.

A report on the condition of Salisbury Road has been prepared and considered by the Highways Committee.

STEAM ROLLER.

The Steam Roller has worked $66\frac{1}{4}$ days, compared to $47\frac{3}{4}$ in 1910, and $84\frac{1}{2}$ in 1909.

BREAKING UP STREETS.

The following permissions have been granted :—

	1911.	1910.	1909.
The Gas Co.	105	43	35
The Electricity Supply Co. ...	14	14	16
The Water Department ...	4	3	2
Builders and others	6	12	15
	<hr/> 129	<hr/> 72	<hr/> 68
Hoardings and Scaffolding ...	2	4	2

The Gas Co. have done considerable damage to practically the whole of the roads in the district owing to their systematic inspection and repairs to their mains. The roads were reinstated in all cases as soon as possible, but of course this work did not restore them to their original condition.

TAR PAVING.

The whole of the roads treated in 1910 were again done, together with the following additions :—Norwich Road, from top of hill to boundary ; Mill Road, from Crawford Road to Overstrand Road ; Cambridge Street, Upper Bond Street, Cross Street, The Loke, Cadogan Road, and Cabbell Road.

The newly metalled portion of Norwich Road was twice treated.

The tarring prevented the roads from breaking up during the very dry season, and no watering was done except where houses adjoined the roads.

The beneficial result of tarring was again demonstrated. Holt Road where tarred for the last few years is still in good condition, but the remaining portion will have to be metalled. Runton Road, which formerly in dry seasons was impossible to keep in good condition, even with constant watering, is now in first class order, although an untreated portion just beyond the boundary became in a very bad state.

STREET WATERING, &c.

Notwithstanding the very dry summer only 277,900 gallons of water were used more than in the previous wet season ; this is mainly due to the extended use of tar painting, as it averages nearly 1,000,000 gallons of water less than the years when tar-painting was not adopted.

The cost of Horse Hire only increased £1 7s. 3d., due to a better system of hiring. The total cost being £51 17s. 3d., or 8½d. per 1000 gallons used, which compares favourably with £132 17s. 10d., or 11½d. per 1000 gallons used in 1906.

	1910.		1911.	
	Number of Days Water Carts were used.	Gallons of Water used.	Number of Days Water Carts were used.	Gallons of Water used.
March	4	55,900		
April	7	91,650	12	76,400
May	16	147,300	18	160,050
June	23	258,600	20	243,050
July	20	194,900	29	389,600
August	27	266,000	29	355,350
September	19	154,000	19	230,850
October	2	9,050		
	<hr/> 118	<hr/> 1,177,400	<hr/> 127	<hr/> 1,455,300
Flushing sewers and gullies		57,200		8,450
Street washing ...	...	21,700		3,850
		<hr/>		<hr/>
Total number of gallons		<hr/> 1,256,300		<hr/> 1,467,600

STREET SCAVENGING.

The cost of this work was £144 2s. 1d., compared with £138 in 1910.

The extra cost was due to additional labour being required owing to the longer season, and greater number of visitors.

SEWERAGE.

The auxiliary sewer in Church Street was improved at two points by diverting it from entering the manholes and forming easy bends ; and the outlet to the manhole at the junction of Norwich and Vicarage Roads was also altered. These works will increase the discharging capacity of the sewers in heavy rains.

All the ventilation shafts have been painted by direct labour.

The labour at the septic tanks during the year has cost £17 os. 9d., compared with £17 15s. 11d. in 1910.

The tanks require cleaning out again, and the work is now in hand ; they were last attended to four years ago.

SURFACE WATER DRAINAGE.

No additional surface water sewers have been laid.

FORESHORE.

The Receipts from the Foreshore show an increase of £78 15s. 9d. ; and over £133 to that of eight years ago.

	1911.			1910.			1909.		
	£	s.	d.	£	s.	d.	£	s.	d.
Tents	113	16	6	71	2	9	46	4	0
Chairs	45	10	0	16	1	0	16	3	0
Machines	29	18	0	23	5	0	23	0	0
	<hr/>			<hr/>			<hr/>		
	189	4	6	110	8	9	85	7	6
	<hr/>			<hr/>			<hr/>		

Of course, the exceptional summer was the main factor in this large increased revenue ; but by dividing the Beach into sections for the right of having seats upon it, and putting these up to tender, instead of the old system of charging so much per seat, brought in an extra £29 9s. 0d.

An improved system of allotting tent spaces was adopted, the Beach being planned into plots for this purpose which gave every satisfaction. A record number of tents were erected.

An additional patrol bathing protection boat had to be engaged—making the third—owing to the large amount of bathing.

Mr. Bishop was again engaged as Beach Inspector, and carried out the duties of a record beach season with every satisfaction both to the Council and the Visitors, many of whom spoke most highly of the excellent order on the bathing grounds.

The Council did not adopt my recommendation to themselves erect bathing huts on the top of the east wall. I am

still of opinion this would prove a profitable investment, and it was a pity such a successful season as last year was missed, which would have put the scheme in a good financial position.

The Council having given the Protection Commissioners notice of their intention to terminate the lease of that portion of the Foreshore above high-water mark, the future management of the Beach is now receiving consideration.

The following table gives the receipts and expenditure for the Beach for the past six years :—

		RECEIPTS.					EXPENDITURE.		
		£	s.	d.			£	s.	d.
1906	...	65	0	3	...	162	0	6	
1907	...	85	7	3	...	128	1	1	
1908	...	85	0	0	...	119	4	9	
1909	...	85	7	6	...	116	9	9	
1910	...	110	8	9	...	138	13	10	
1911	...	189	4	6	...	162	16	8	

HACKNEY CARRIAGES.

The holding of one Inspection instead of two proved successful.

The following Licences were granted :—

	1911.	1910.	1909.
Carriage Licences	... 40	... 49	... 46
Drivers' „	... 46	... 56	... 50
Omnibus „	... 8	... 8	... 8
Conductors' „ }	...	{ 12	... 8
Drivers' „ }	... 23	{ 11	... 10
Donkeys and Ponies	... 29	... 20	...

Mr. Watson, for the tenth year, most efficiently carried out the duties of Hackney Carriage Inspector.

STREET LIGHTING.

One Gas Lamp has been taken down owing to a re-arrangement of the lamps in Mill Road.

One Metallic Filament Electric Lamp has been fixed on Cromwell Road.

	1911.		1910.		1909.
Incandescent Gas Lamps ...	180	...	181	...	180
High Power „ ...	1	...	1	...	1
Electric Arc Lamps ...	10	...	10	...	10
„ Metallic Filament Lamps	7	...	6	...	6
	<hr/> 198		<hr/> 198		<hr/> 197

STOREYARD.

No concrete kerb or channel has been made during the year.

WEATHER STATION.

The fence has been repaired.

The gorse and bracken caught fire during the dry summer, but fortunately no damage was done to the Station.

By the kindness of the owner and tenant the Howard's Hills have been opened to the public during the summer, and was much appreciated.

ISOLATION HOSPITAL.

The whole of the exterior and interior paint work has been renewed, the walls of the Administrative Block have been coloured, and a portion treated with "Ceresit" for dampness—Mr. H. Bullen being the contractor.

COUNCIL COTTAGES.

It has been necessary to re-roof a portion and repair the wash-house. The work is now in hand, direct labour being employed.

CEMETERY.

The ground floor to the Lodge having been damaged by dry rot, tenders are now being invited for its renewal.

HOUSE-SCAVENGING.

1055 loads of Refuse were collected, compared with 1033 in 1910.

The cost of collecting and tipping same was £398 6s. 4d., compared with £410 8s. 1d. in 1910.

Mr. G. Riches being unable to continue his contract to cart and tip the Refuse at the Felbrigg Brick Fields, the necessary specification and particulars were prepared and tenders invited from six makers, for the erection of a suitable Refuse Destructor.

After a thorough investigation, and a visit having been made to Sowerby Bridge with the Chairman to see a plant erected there by the firm, I had every confidence in recommending for acceptance the lowest tender, viz., Messrs. Dawson & Manfield of Manchester.

The plant will be a very compact and simple one, capable of burning six tons of refuse in ten hours, and of the front-feed type. A Babcock and Wilcox water tube boiler will provide the steam jet force draught. The chimney will be 60 feet high of the "Custodis" type.

The required plans and particulars were prepared and submitted to the Local Government Board, and the Inquiry was held December 19th by Mr. H. R. Hooper, M.I.C.E. ; and the approval was received on December 30th without any alterations to the scheme being necessary.

The estimated cost of the scheme is £1500 made up as follows :—

Land and Legal Expenses	...	...	£170
Destructor	...	...	£1146
Road and Tipping Platform	...	...	£35
Fencing	...	...	£45
Water Service	...	...	£4
Contingencies	...	...	£100

The Council have decided not to charge for the removal of Trade Refuse.

PUBLIC CONVENIENCES.

The exterior has been painted by Messrs. Crane, Warner, & Wilkin; and the interior required attention, but owing to the dampness of last spring it was impossible to do it before the commencement of the season.

BUILDING BYE-LAWS.

			1911.	1910.	1909.
Sets of Plans submitted	...	...	12	11	11
Number approved	...	...	12	11	11
Representing—					
Dwelling-houses	...	...	4	7	3
Alterations and additions	...	...	7	6	6
Outbuildings	...	...	1	1	0
Motor garages	...	...	0	1	0
Public buildings	...	...	0	0	1
Other	...	...	0	0	0
Roads	...	...	0	0	3
Sewers	...	...	0	0	2
Surface-water sewers	...	...	0	0	3
Workshops	...	...	2	0	0
			—	—	—
			14	15	18
			—	—	—

TEMPORARY BUILDINGS.

			1911.	1910.	1909.
Number of Requisitions received	...	...	4	8	12
Number of Buildings erected	...	...	4	7	11
<hr/>					
Number of Buildings on January 1st, 1911	...	...			16
Number of Buildings erected during the year					4
<hr/>					
					20
Number of Buildings taken down during the year	...	...	...	...	1
<hr/>					
Number of Buildings on December 31st, 1911	...	...	...	...	19
<hr/>					

I have the honour to be, Gentlemen,

Your obedient servant,

ROBERT CROOME.

January 22nd, 1912.

Cromer Fire Brigade.

Report of the Chief Officer

For the Year ending 31st December, 1911.

To the Chairman and Members of the Fire Brigade Committee.

GENTLEMEN,

I have to report that during the year seven calls were received by the Brigade, as follows :—

In the Urban District—

1. Edinburgh House.
2. Howard's Hill.
3. Miss Taylor's House, Cabbell Road.
4. Great Eastern Railway Station.

In Parishes with which the Brigade has agreements—

5. Sir Edgar Speyer, Bart., Sea Marge, Overstrand.
6. Messrs. Tyler Bros. Farm, Thorpe Market.

Outside District—

7. Roseland House, South Street, Sheringham.

Fortunately, all the outbreaks in the Urban District were of a slight character, the Hose Reel being used in the case of calls Nos. 1 and 3, and No. 4 being got under without difficulty. In the case of call No. 2 the furze had, owing to the hot weather, become very dry.

Calls Nos. 5 and 6 were more serious. The servants' quarters at Sir E. Speyer's house (a detached building) had become ignited through the overheating of a flue and was completely destroyed. The efforts of the Brigade were directed

to saving the adjoining premises. No. 6 was a stack fire, but owing to the high wind prevailing at the time the farm premises were threatened, and in this case also the attention of the Brigade was chiefly directed to watching the premises in danger.

The call to Sheringham was to Roseland House, South Street, which had become ignited. The call was given by telephone, and the Brigade went on a responsible resident undertaking to be answerable for the expenses. The Sheringham Brigade was working on the building and had got the fire under control when the Brigade arrived.

In cases Nos. 1, 4, 5 and 6 the charges and expenses of the Brigade were paid by the Insurance Companies concerned.

There has been no alteration in the plant or appliances possessed by the Brigade during the year. Two lengths of hose had been rendered useless at fires and you have given instructions for these to be replaced.

Mr. Henry Bullen, the Second Lieutenant, and other members having left the district, new members have been appointed to the vacant positions. Mr. T. L. Randall has been appointed Second Lieutenant.

The conduct of the Brigade has been satisfactory, and I have pleasure in again acknowledging the assistance at all times rendered by the Lieutenants and the Fire Alarm Superintendent.

I am, Gentlemen,

Your obedient servant,

J. K. FROST,

Captain.

REPORT

OF

Waterworks Department

For Year ending 31st March, 1911.

STATISTICS.

CAPITAL OUTLAY.

	£	s.	d.
Cost of Works to 31st March, 1910 ...	102,973	5	5
Expenditure in year... ..	61	18	7
Total	£103,035	4	0

LOANS.

Interest and Charge for Loans.

	Rate of Interest.	Date of Payment.
£68,294 16 10	£3 $\frac{3}{4}$	1952
32,600 0 0	3 $\frac{5}{8}$	1963
1,400 0 0	3 $\frac{5}{8}$	1945
252 0 0	3 $\frac{3}{4}$	Repaid
500 0 0	3 $\frac{3}{4}$	1940

Annual Charge (irrespective of additional Loans required)—

Until the year 1940 ...	£4553	0 10	per annum.
From 1940 to 1945 ...	4525	2 8	,,
From 1945 until 1952 ...	4456	11 2	,,
From 1952 to 1963 ...	1368	0 8	,,

WATER SUPPLY.

Estimated supply—

Metton Works ...	730,000	gallons per day.
Cromer ,, ...	200,000	,,

Total 930,000

Allowing 30 gallons per head the supply is sufficient for a population of 31,000.

STORAGE.

Storage provided—

No. 1.	Aylmerton Reservoir	...	1,000,000	gallons.
2.	Cromer	„	600,000	„
3.	„	„	120,000	„
4.	Water Tower	...	50,000	„
			<hr/>	
			1,770,000	
			<hr/>	

MAINS.

	Public Mains.		Private Mains.	
	M.	Y.	M.	Y.
Mileage to 31st March, 1910 ...	21	1253	1	1224
Added in Year ...	—	231	—	—
<hr/>				
Total	21	1484	1	1224
<hr/>				

ABSTRACT OF WORKING STATEMENT.

For the Year ending 31st March, 1911.

Quantity of Water supplied—

Metton Works	70,041,000	
Cromer „	1,818,000	Gallons.
<hr/>		71,859,000

Average No. of Inhabited Houses supplied 1323 houses.

Estimated Population supplied ...	}	... 7500
(Equated for Season and Non-Season months)		

*Average daily supply for Domestic purposes only	Gallons.
Average daily supply for other purposes ..	156,000
	41,000
	<hr/>

Total average daily supply	197,000
	<hr/>

*Average daily supply per house for Domestic purposes only	118
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*Average daily supply per head for Domestic purposes only	21
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Capital employed	Per Million Galls.	Per Thousand Galls.
	£1433.85	£1.43
Coal used	Tons.	Average price per ton.
	285	£1 1 1
	Cost.	
	£300	

*NOTE.—This includes the water used for Boilers, Flushing Mains, and Fire Extinguishing, for which no allowance is made.

REVENUE ACCOUNT, 1910-11.

Items.	Amount.		Price per 1000 galls.		Per cent. on Income	
	£	£	Pence	Pence		
GROSS INCOME	4975		16.61		105.00	
<i>Less</i> Empties & Allowances	235		0.78		5.00	
		4740		15.83		100.00
EXPENDITURE.						
Pumping	501		1.67		10.57	
Maintenance	205		0.68		4.32	
Main Repairs including Inspection	144		0.48		3.04	
Rates and Taxes	346		1.16		7.30	
Management	174		0.58		3.67	
		1370		4.57		28.90
PROFIT		3370		11.26		71.10
<i>Loan Charges</i>		4552		15.20		96.03
<i>Deduct</i> profit		3370		11.26		71.10
<i>Charge</i> on District Rate ...		1182		3.94		24.93

J. K. FROST,

Clerk.